Title (en)

Printer-system, method of printing, and recording medium for implementing the method

Title (de)

Drucksystem, Druckverfahren und Aufzeichnungsmedium zur Durchführung des Verfahrens

Title (fr)

Système d'impression, procédé d'impression et support d'enregistrement pour la mise en oeuvre du procédé

Publication

EP 1648153 B1 20070808 (EN)

Application

EP 05028515 A 19990625

Priority

- EP 99305030 A 19990625
- JP 19679398 A 19980626

Abstract (en)

[origin: EP0967787A2] A printer-system for printing or recording images using a plurality of dots having different densities. The printer system includes a head (28) for producing at least 2 different types of dots having different densities per unit area, an input unit (90) for receiving input tone data with respect to each of the pixels in an original image, a threshold value storage unit (90) for storing threshold values, a multi-valuing unit (90) for determining the on-off state of a dot and the type of the dot to be created at each pixel, and a dot creation unit (40) for driving the printer head (28). Print image quality is degraded for example when, around any specific input tone value, there are abrupt changes in the number density of large dots to small dots. The multi-valuing unit (90), employing error diffusion techniques, changes the threshold values for selecting the type of dot printed to control the relative density of large dots at each input tone value and thus regulates the print image quality. <IMAGE>

IPC 8 full level

B41J 2/21 (2006.01); **H04N 1/40** (2006.01); **B41J 2/205** (2006.01); **H04N 1/23** (2006.01)

CPC (source: EP US)

H04N 1/40087 (2013.01 - EP US); **H04N 1/4052** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

EP 0967787 A2 19991229; **EP 0967787 A3 20020619**; **EP 0967787 B1 20100512**; DE 69936804 D1 20070920; DE 69936804 T2 20080417; DE 69942357 D1 20100624; EP 1648153 A1 20060419; EP 1648153 B1 20070808; JP 2000006444 A 20000111; JP 3663919 B2 20050622; US 6943918 B1 20050913

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